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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/896,080	06/30/2001	Kuo-Hui Li	062004-1730	9513
24504	7590	10/06/2004	EXAMINER	
THOMAS, KAYDEN, HORSTEMEYER & RISLEY, LLP			DEANE JR, WILLIAM J	
100 GALLERIA PARKWAY, NW			ART UNIT	PAPER NUMBER
STE 1750				2642
ATLANTA, GA 30339-5948				

DATE MAILED: 10/06/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	09/896,080	LI ET AL.
	Examiner	Art Unit
	William J Deane	2642

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 30 June 2001.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 1-20 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All
 - b) Some *
 - c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 2 pages
- 4) Interview Summary (PTO-413)
Paper No(s)/Mail Date _____
- 5) Notice of Informal Patent Application (PTO-152)
- 6) Other: _____

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1 – 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent Application No. 2002/0034943 (Pallonen).

Pallonen teaches the device as claimed, except that there is no explicit recitation of an analog pre-selection network. However, it is doing the same as Applicant's device, i.e. pre-selecting signals. See Paragraphs 0018 – 0021, Paragraphs 0023 – 0024), Paragraphs 0026 – 0033 and 0036. See also, Figs. 1 – 3. If Applicant disagrees, it would have been obvious to one of ordinary skill in the art to pre-select a range of signals through any filtering or any other means as was deemed necessary.

Note use of filter 7.

With respect to those claims with multiple switching networks; note Paragraphs 0039 – 0041.

Even if Applicant disagrees that Fig. 4 is doing what Applicant's device is doing, that is using multiple pre-selection networks, the Examiner would agree the duplication of pre-selection networks would have been obvious to one of ordinary skill in the art.

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With respect to claim 16, comparing a code such as correlation codes is old in the art and would have been obvious to one of ordinary skill in the art to use whatever parameter was deemed necessary in the comparing step, such as frequency or bit error rate and the like.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure:

U.S. Patent No. 6,697,642 (Thomas) – note Figs. and Abstract;

U.S. Patent No. 6,580,358 (Nysen) – note Figs.;

U.S. Patent No. 6,405,018 (Reudink et al.) – note Figs.;

U.S. Patent No. 6,118,773 (Todd) – note Figs.;

U.S. Patent No. 5,590,399 (Matsumoto et al.) – note Figs. and Abstract; and

U.S. Patent No. 5,410,733 (Niva et al.) – note Figs.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bill Deane whose telephone number is (703) 306-5838. In addition, facsimile transmissions should be directed to Bill Deane at facsimile number (703) 872-9306.

28Sep04


WILLIAM J. DEANE, JR.
PRIMARY EXAMINER